

## INFORMATION DISCLOSURE

## STATEMENT BY APPLICANT

(Multiple sheets used when necessary)

Application No.	09/989,995
Filing Date	November 21, 2001
First Named Inventor	Ben A. Arnold
Art Unit	2625
Examiner	Tabatabai, Abolfazl
Attorney Docket No.	IMAGE.011A

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SHEET 1 OF 1

## U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
A-T	1	5,415,176	05/16/95	Sato et al.	
	2	5,528,644	06/18/96	Ogawa et al.	
	3	5,594,775	01/14/97	Hangartner	
	4	5,870,697	02/09/99	Chandler et al.	
	5	6,246,784	06/12/01	Summers et al.	

## FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No.	Foreign Patent Document Country Code-Number-Kind Code Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T <sup>1</sup>
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## NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>1</sup>
A-T	6	Gary A. Borkan et al., <i>Assessment of abdominal fat content by computed tomography</i> , (Am J Clin Nutr.) July 1982, pp. 172-177.	
	7	J.L. Megnien et al, <i>Coronary calcification and its relation to extracoronary atherosclerosis in asymptomatic hypercholesterolemic men</i> , circulation 1992; 85: pp. 1799-1807.	
	8	Robert Detrano et al., <i>Accurate coronary calcium phosphate mass measurements from electron beam computed tomograms</i> , (American Journal of Cardiac Imaging) Vol. 9. No. 3, July 1995, pp. 167-173.	
	9	Henry Kvist et al., <i>Total and visceral adipose-tissue volumes derived from measurements with computed tomography in adult men and women: predictive equations</i> , (Am J Clin Nutr) 1998, pp. 1351-1361.	
	10	Arthur S. Agatston et al. <i>Quantification of coronary artery calcium using ultrafast computed tomography</i> , (American College of Cardiology), 1990; 15: pp. 827-832	
	11	Walter O. Grauer, et al., <i>Quantification of body fat distribution in the abdomen using computed tomography</i> , (Am J. Clin Nutr) 1984; 39: pp. 631-637	

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Examiner Signature <i>Abolfazl Tabatabai</i> ✓	Date Considered <i>7/11/05</i> ✓
<p>*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>	

T<sup>1</sup> - Place a check mark in this area when an English language Translation is attached.



PTO/SB/08 Equivalent

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A-T	1	4,651,335	03/17/87	Kalender et al.	
A-T	2	4,663,772	05/05/87	Mattson et al.	
A-T	3	4,922,915	05/08/90	Arnold et al.	
A-T	4	5,222,021	06/22/93	Feldman et al.	

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Examiner Signature	Abolfazl Tabatabai	Date Considered	7/11/05
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FORM PTO-1449 OCT 29 2002 SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. IMAGE 011A	APPLICATION NO. 09/989,995
	APPLICANT Ben A. Arnold		
	FILING DATE November 21, 2001	GROUP 3737	

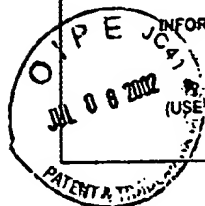
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
A-T	1	5,034,969	07/23/91	Ozaki	RECEIVED NOV 06 2002		
	2	5,056,130	10/08/91	Engel			
	3	5,521,955	05/28/96	Gohn et al.	RECEIVED NOV 1 2002		
	4	5,757,877	05/26/98	Willing			
	5	5,774,519	06/30/98	Lindstrom et al.	TECHNOLOGY CENTER R3700		
	6	5,949,842	09/07/99	Schafer et al.			
	7	5,953,444	09/14/99	Joseph et al.			
	8	6,026,142	02/15/00	Gueziec et al.			
	9	6,127,669	10/03/00	Sidiropoulos et al.			
	10	6,226,350 B1	05/01/01	Hsieh			
	11	6,233,304 B1	05/15/01	Hu et al.			
V	12	6,278,761 B1	08/21/01	Kim et al.			

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
A-T	13	One-page abstract of: W.G. Schmitt et al., <i>Attenuation values of normal and pathological liver tissue as a basis for computer tomographic densitometry of fatty livers (author's transl.)</i> , <u>ROFO Fortschr Geb Rontgenstr Nuklearned</u> , (Article in German), Vol. 129, No. 5, November 1978, pp. 555-559.
	14	One-page abstract of: K.H. Hubener et al., <i>Computer tomographic densitometry of human blood. The effect of absorption by parenchymatous organs and effusions (author's transl.)</i> , <u>ROFO Fortschr Geb Rontgenstr Nuklearned</u> , (Article in German), Vol. 130, No. 2, February 1979, pp. 185-188.
	15	Christopher E. Cann, Ph.D., <i>Low Dose CT Scanning for Quantitative Spinal Mineral Analysis</i> , <u>Radiology</u> , Vol. 140, No. 3, September 1981, pp. 813-815.
	16	Clifford Levi et al., <i>The Unreliability of CT Numbers as Absolute Values</i> , <u>AJR</u> , 139, September 1982, pp. 443-447.
	17	One-page abstract of: K.S. Chuang et al., <i>Evaluation of inherent gray-level dynamic range in a digital image using the runs test and join-count statistics</i> , <u>Medical Physics</u> , Vol. 20, No. 5, January-February 1993, pp. 39-45.
	18	One-page abstract of: E. Di Giandomenico et al., <i>Quantitative evaluation of blood in vivo with computed tomography</i> , <u>Radiol. Med (Torino)</u> , (Article in Italian), Vol. 85, No. 4, April 1993, pp. 416-420.
V	19	Judd E. Reed et al., <i>System for Quantitative Analysis of Coronary Calcification via Electron Beam Computed Tomography</i> , <u>Medical Imaging 1994, Physiology and Function from Multidimensional Images</u> , <u>SPIE</u> , Vol. 2168, February 13-14, 1994, pp. 43-53.

EXAMINER <i>Abel Parlat Tabatbaev</i>	DATE CONSIDERED <i>10/7/04</i>
*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.	

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SHEET 1 OF 3



FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. IMAGE.011A	APPLICATION NO. 09/589,995
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)		<b>RECEIVED</b> SEP 11 2002 TECHNOLOGY CENTER R3700	
APPLICANT Ben A. Arnold		FILING DATE November 21, 2001	GROUP Unknown

TECHNOLOGY CENTER R3700

U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
A-T	2,399,650	05/07/46	H.P. Moyer			
	2,426,884	09/02/47	J. Kieffer			
	3,705,383	12/05/72	Frayar			
	3,944,830	03/16/76	Dissing			
	4,115,691	09/19/78	Oldendorf			
	4,115,762	09/19/78	Akiyama et al.			
	4,124,799	11/07/78	Schittenhelm			
	4,233,507	11/11/80	Volz			
	4,400,827	08/23/83	Spears			
	4,475,122	10/02/84	Green			
	4,593,400	06/03/86	Mouyen			
	4,593,406	06/03/86	Stone			
	4,649,561	03/10/87	Arnold			
	4,721,112	01/26/88	Hirano et al.			
	4,724,110	02/09/88	Arnold			
	4,811,373	03/07/89	Stein			
	4,829,549	05/09/89	Vogel et al.			
	4,852,137	07/25/89	Mackay			
	4,922,915	05/08/90	Arnold et al.			
	4,941,184	07/10/90	Schulter et al.			
	4,947,414	08/07/90	Stein			
	4,985,906	01/15/91	Arnold			
	5,005,198	04/02/91	Lanza et al.			
	5,040,199	08/13/91	Stein			
	5,049,746	09/17/91	Ito			
↓	5,068,788	11/28/91	Goodenough et al.			

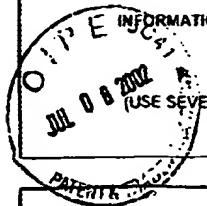
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EXAMINER <i>Abel Pazl Tabataba:</i>	DATE CONSIDERED <i>10/31/04</i>
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FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. IMAGE 011A	APPLICATION NO. 09/989,995
INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (USE SEVERAL SHEETS IF NECESSARY)		APPLICANT Ben A. Arnold	
		FILING DATE November 21, 2001	GROUP Unknown



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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
A-T	5,122,664	06/16/92	Ito et al.			
	5,123,037	08/18/92	Picard et al.			
	5,132,995	07/21/92	Stein			
	5,138,553	08/11/92	Lanza et al.			
	5,148,455	09/15/92	Stein			
	5,150,394	09/22/92	Karellas			
	5,187,731	02/16/93	Shimura			
	5,247,559	09/21/93	Ohtsuchi et al.			
	5,335,260	08/02/94	Arnold			
	5,365,564	11/15/94	Yashida et al.			
	5,465,284	11/07/95	Karellas			
	5,577,089	11/19/96	Mazess			
	5,696,805	12/09/97	Gaborski et al.			
	5,712,892	01/27/98	Wei et al.			
	5,852,647	12/22/98	Schick et al.			
V	6,320,931	11/20/01	Arnold			

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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
A-T	EP 0 253 742 A1	01/20/88	Europe (Tanguy et al.)			YES NO

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)
A-T	F.H.W. Hauck, <i>Quantitative Measurements of Mineral Content in Bone Disease</i> , <u>Symposium Ossium</u> , Session 10, E.S. Livingstone, Edinburg, Scotland, 1970, pages 141-147.
A-T	Robert H. Heil, Jr., et al., <i>Quantitative Materials Evaluation and Inspection with the Image Analysing Computer</i> , <u>Proceedings of the Society of Photo-Optical Instrumentation Engineers</u> , February 1972, pages 131-143.
A-T	Robert G. Zamenhof et al., <i>A Theoretical Sensitivity Evaluation of CT for the Measurement of Bone Mineral in Cortical and Vertebral Bone</i> , <u>Proceedings of CT Densitometry Workshop, Journal of Computer Assisted Tomography</u> , Vol. 3, No. 6, 1979, page 852.

EXAMINER <i>Abol Lozi Tahatabai</i>	DATE CONSIDERED <i>10/31/01</i>
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